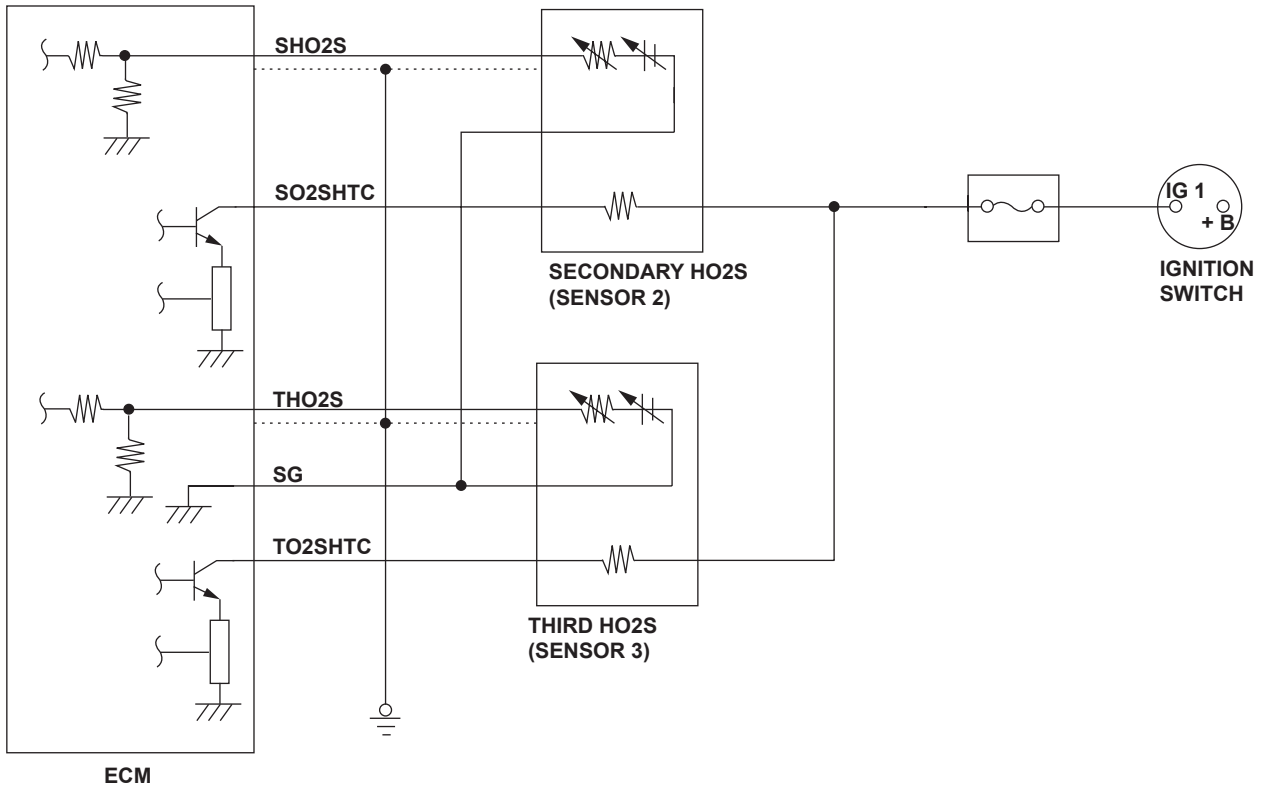# Advanced Diagnostics

DTC P1130: Demand for Changing Both Secondary Heated Oxygen Sensor (Secondary HO2S) (Sensor 2) and Third Heated Oxygen Sensor (Third HO2S) (Sensor 3) (M/T)

P1130-0202

General Description

To prevent a difference in response characteristics from causing false DTCs, both the secondary heated oxygen sensor (HO2S) and the third HO2S must be replaced simultaneously. If a malfunction that is related to the secondary HO2S or the third HO2S (deterioration, a faulty heater) is detected, the DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Once per driving cycle[1], Continuous[2]
Sequence	None
Duration	—
DTC Type	One drive cycle[2] or Two drive cycles[1], MIL ON

[1]: Secondary HO2S, Third HO2S
[2]: Secondary HO2S heater, Third HO2S heater

Enable Conditions

Condition	
Other	Refer to Enable Conditions for these malfunctions: the secondary HO2S, the third HO2S, the secondary HO2S heater and the third HO2S heater

Malfunction Threshold

Refer to Malfunction Threshold for these malfunctions: the secondary HO2S, the third HO2S, the secondary HO2S heater, and the third HO2S heater.

Driving Pattern

Refer to Driving Patterns for the secondary HO2S (P0137, P0138, P0139) and the third HO2S (P0143, P0144, P0145).

Diagnosis Details

Conditions for illuminating the MIL
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM memory.

Conditions for clearing the MIL
The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.
The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.

P1130-2WW0-00